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<u>L42</u>	'6829771'.pn.	1	<u>L42</u>
<u>L41</u>	'6889373'.pn.	1	<u>L41</u>

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<u>L40</u>	(integrat\$3 or framework) with (wmi or windows near management near instrumentation)	50	<u>L40</u>
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<u>L38</u>	(wmi or windows near management near instrumentation) and L37	19	<u>L38</u>
<u>L37</u>	(support\$3 or complaint) near provider	1883	<u>L37</u>
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<u>L33</u>	(message or request) with (((non\$1 or "not") near (support\$3 or complaint)) near provider)	1	<u>L33</u>
<u>L32</u>	(integrat\$3 or flexib\$4 or framework or adapter) with ((plural\$4 or multipl\$6 or different or two or more) near provider)	213	<u>L32</u>
<u>L31</u>	framework and L30	40	<u>L31</u>
<u>L30</u>	integrat\$3 with managed adj object	70	<u>L30</u>
<u>L29</u>	(((((non\$1 or "not") near (support\$3 or compliant)) near providers))	9	<u>L29</u>
<u>L28</u>	(framework with (((non\$1 or "not") near (support\$3 or compliant)) near providers))	1	<u>L28</u>
<u>L27</u>	(integrat\$3 with (((non\$1 or "not") near (support\$3 or compliant)) near providers))	1	<u>L27</u>
<u>L26</u>	(integrat\$3 with (((non\$1 or "not") near (support\$3 or compliant)) near providers)).ab,ti.	1	<u>L26</u>

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<u>L25</u>	LongBARDI!	3	<u>L25</u>
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<u>L20</u>	L12 and L19	63	<u>L20</u>
<u>L19</u>	L16 or L17 or L18	71211	<u>L19</u>
<u>L18</u>	(719/311 719/312 719/313 719/314 719/315 719/316 719/318 719/328 719/330 719/331 719/332).ccls.	5403	<u>L18</u>

(709/201 |709/202 |709/203 |709/204 |709/205 |709/206 |709/207 |709/217

<u>L17</u>	709/218 709/219).ccls.	27065	<u>L17</u>
	(707/1 707/2 707/3 707/4 707/5 707/6 707/7 707/8 707/9 707/10		
<u>L16</u>	707/100 707/101 707/102 707/103R 707/103Y 707/103X 707/103Z 707/104.1).ccls.	43138	<u>L16</u>
<u>L15</u>	cimom and (java near native near interface or jni)	6	<u>L15</u>
<u>L14</u>	wmi and (java near native near interface or jni)	4	<u>L14</u>
<u>L13</u>	wmi and java and L12	12	<u>L13</u>
<u>L12</u>	cimom	175	<u>L12</u>
<u>L11</u>	(wmi and java) near2 provider	1	<u>L11</u>
<u>L10</u>	java near provider	45	<u>L10</u>
<u>L9</u>	(com and java) near provider	0	<u>L9</u>
<u>L8</u>	(jni or java near native near interface) and L3	8	<u>L8</u>
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<u>L3</u>	(wmi or cim or cimom or common near model) and manag\$6 near object	671	<u>L3</u>
<u>L2</u>	(wmi or cim or cimom or common near model) and (\$4complaint or \$4compatib\$5) with manag\$6 near object	8	<u>L2</u>
<u>L1</u>	\$4compatib\$5 with manag\$6 near object	91	<u>L1</u>

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Date: Mon, 19 May 2003 10:54:31 +0800 1. force JVM to do the garbage collection ...

Started the CIMOM server and the above testing client at about 10:49am ...

https://sophocles/show_mail.tpl?CALLER=show_archive.tpl&source=L&listname=snia-cimom&id=353 - 4k - [Cached](#) - [Similar pages](#)[\[PDF\] JMX Instrumentation](#)File Format: PDF/Adobe Acrobat - [View as HTML](#)

an XML API for CIMOM access (client access) JVM. A. C. Management. Application.

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perso.citi.insa-lyon.fr/sfrenot/publications/Fractal-27012003.pdf.gz - [Similar pages](#)[#118985-08: Sun StorEdge ESM 3.0.1 Advanced Applications Patch](#)

During a Get All Element Details, we now log a message in the cimom.log when we ...

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CIMOM. MBeanServer. JVM. SNMPMBean. CIM-MBean. MOF-to-Bean. Tool. MIBGen.

Tool. Kreger.book Page 60 Wednesday, December 11, 2002 11:38 AM ...

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S and CIM compliant Object Manager (CIMOM), ...

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CIMOM Architecture & Integration. • Java™ WBEM API. • Developing Clients. • Developing

Providers ... applications and instrumentation. • WBEM enabled JVM ...

www.dmtf.org/data/presentations/devcon02/JimDavis-WBEM.pdf - [Similar pages](#)[OBSOLETE Patch-ID# 118985-07 NOTE ...](#)

... A problem in Reader/Writer lock implementation may cause cimom to get into 9255 -

JVM upgrade Problem: Several bugs are caused by having the 1.4.1 ...

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Abend in JVM.nlm. Hi Does anyone have any ideas what might be causing the following

abend? The NLM OpenWBEM CIMOM Daemon with Novell providers ...

[forums.novell.com/.../open-enterprise-server/oes-netware/oes-nw-abends-hangs/128701-](http://forums.novell.com/.../open-enterprise-server/oes-netware/oes-nw-abends-hangs/128701-abend-jvm.nlm.html)[abend-jvm.nlm.html](http://forums.novell.com/.../open-enterprise-server/oes-netware/oes-nw-abends-hangs/128701-abend-jvm.nlm.html) - 81k - [Cached](#) - [Similar pages](#)

IBM Director CIM Support

... clients that have an active **CIMOM** (CIM Object Manager) by defining Java interfaces. ...
either in or outside of the server's own **JVM**, or on the Console, ...

publib.boulder.ibm.com/infocenter/dirinfo/

toolkit/topic/com.ibm.director.sdk.doc/CIMOverview.html - 8k - [Cached](#) - [Similar pages](#)

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WBEM Provider WBEM Provider WBEM Services **CIMOM** CIM CIMXML Web WBEM

WBEM ...

h50146.www5.hp.com/products/software/oe/hpux/developer/topics/column/swf/JHS05512-

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Remote CMPI support

For Java based **CIMOMs**, the stub will use **JNI** techniques to interface to the appropriate Java class interfaces. A CMPI style provider is not aware of this, ...

www.openpegasus.org/pp/uploads/40/7775/RemoteCMPI1.2-PEP.html - 21k -

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RE: query on java wbem cl: msg#00119

Yes , but still if the provider interface has to be in native C++ and the Server is SNIA **cimom** , we can use **JNI** . But I guess it is not feasible to have C++ ...

osdir.com/ml/network.open-pegasus.general/2005-01/msg00119.html - 21k -

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Bug ID: 4736973 CIMOM does the wrong thing for the unreg file when ...

wbem:other, **CIMOM** does the wrong thing for the unreg file when a mof file has ... [Provider ("jni:libWBEMdisk.so"), Version("1.3.0"), Description("Provides ...

[bugs.opensolaris.org/view_bug.do;jsessionid=12b3d46a3e0f1e4d6b7b7ccf26?](http://bugs.opensolaris.org/view_bug.do;jsessionid=12b3d46a3e0f1e4d6b7b7ccf26?bug_id=4736973)

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Java common information model interface for windows management ...

2 depicts a schematic showing how a Java Native Interface (**JNI**) ties the C Windows management APIs 18 facilitate communication with a **CIMOM** 19 and CIM ...

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#109135-33: SunOS 5.8 x86: WBEM patch

... /usr/demo/wbem/provider/jni/README /usr/demo/wbem/provider/jni/native.c -

postpatch script update 4396895 **cimom** is not restarted after a patchadd ...

sunsolve.sun.com/search/document.do?assetkey=urn:cds:docid:1-21-109135-33-1 - 54k -

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Internet WWW Ivan Preziosi JDBC **JNI** JPEG Jan 7th January 07th Java 1 ...

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CIMOM Architecture & Integration. • Java™ **WBEM** API. • Developing Clients public void initialize(**CIMOMHandle cimom**). throws **CIMException** { ...

www.dmtf.org/data/presentations/devcon02/JimDavis-WBEM.pdf - [Similar pages](#)

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The **CIMOM** is responsible for calling the correct provider(s) in response to ... The **CIMOM** is the central part of **WBEM**. It has a repository containing all ...

cs.uccs.edu/~cs522/studentproj/projF2002/sdwise/doc/CS522_Research_Report.doc -

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Patch-ID# 109135-30 Keywords: security printing timezone ...

... /usr/demo/wbem/provider/jni/README /usr/demo/wbem/provider/jni/native.c unused

files -postpatrch script update 4396895 cimom is not restarted ...
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IBM Director CIM support

General overview

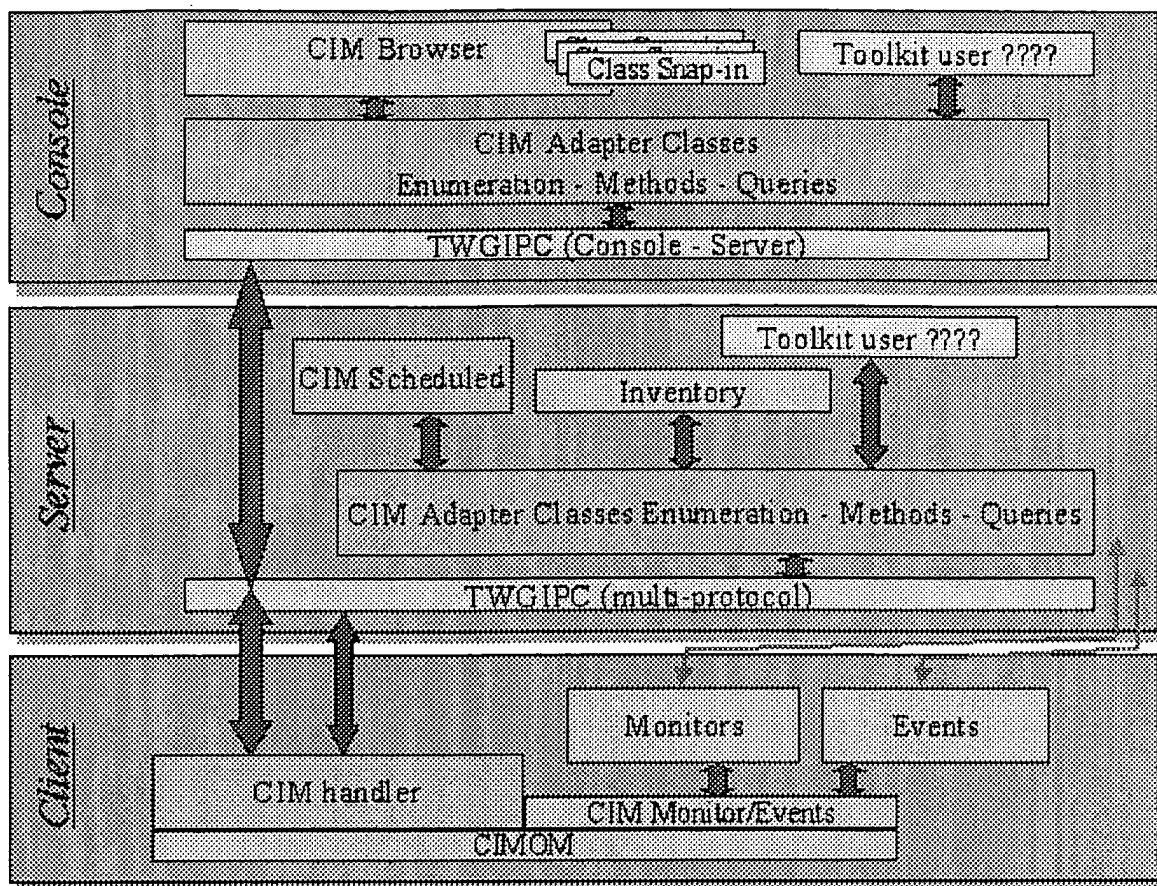
This document is intended as an overview of the CIM support provided in Director. It is *not* a tutorial on CIM or its concepts. The CIM documents published by the DMTF (Desktop Management Task Force) are considered prerequisite reading. This document will outline four major components that together make up not only the basis of the CIM support for Director, but also are the core of the SDK for CIM usage by other portions of IBM Director and any OEM extensions. For example, the Inventory collection will be done using a portion of this function (the adapter). There are, however, two major CIM functions within IBM Director which exist outside of this discussion: Alerting and Monitoring. The nature of these two components requires that their functionality reside as close as possible to the component, which means they will not be using the functions detailed in this document.

Purpose

The task at hand is to allow the functionality that CIM provides in a way that is useful to Director. In the IBM Director model, that means adding support to the client to consume the CIM functionality, and to surface that information in some way on both the Console and the Server. This is the job of the CIM Adapter. Once the information is available in both places, any function that requires the information might make use of it. The first function that comes to mind is a general case Browser.

Architectural overview

The following diagram outlines the general architecture of the CIM extension for Director.



CIM adapter

The Adapter is provided to allow remote access to clients that have an active CIMOM (CIM Object Manager) by defining Java interfaces. The adapter is available to *all* IBM Director processes, whether they run on the server, either in or outside of the server's own JVM, or on the Console, and all interfaces operate asynchronously. The second purpose behind the design of the adapter was to provide a "standard" interface for interacting with CIM. The current CIM documentation defines the schema definitions, but lacks any sort of standard interface for interacting with that information. The complete Adapter interface contains three parts:

- o CIM Interface definitions (designated by class files beginning with i, for example `iCIMEnumeration.java`)
- o Abstract base classes (designated by class files beginning with a, for example `aCIMClass.java`)
- o IBM Director Implementation

The interface definitions and the abstract base classes are meant to be implementation neutral. The remaining classes make up the implementation of those interfaces for use in the IBM Director environment.

Adapter interface definitions

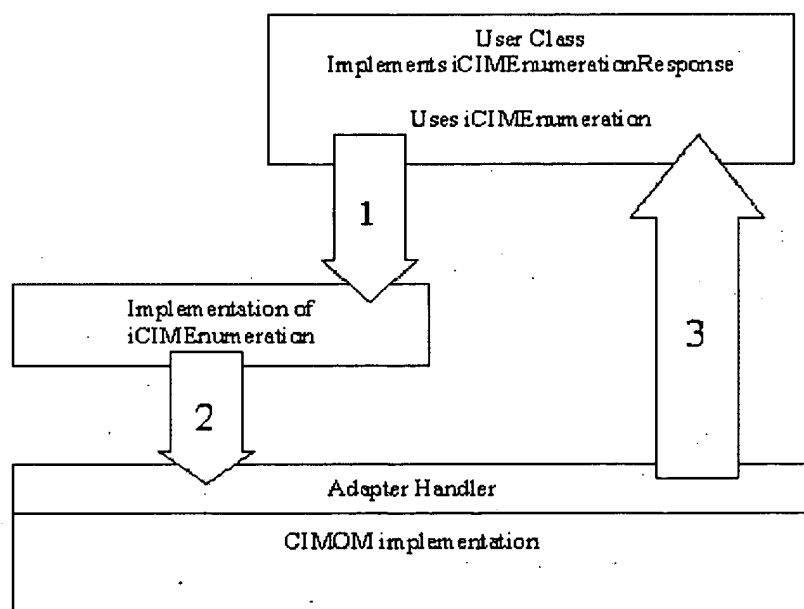
- Enumerate:
 - o NameSpaces

- Classes
- Instances
- Methods
- Properties
- Qualifiers
- Property operations:
 - Get
 - GetBulk
 - Set
 - SetBulk
- Method operations:
 - Retrieve method information
 - Invoke Methods

All three interfaces operate the same way. They are call/response interfaces, where the call back into the `iCIMxxxResponse` interface occurs asynchronously from the initial call into the `CIMxxx` interface. The implementers of the interface will provide an implementation of The caller or user of one of the interfaces is required to implement the appropriate response interface. For example, if you were going to enumerate the classes contained in a given systems CIMOM, you would instantiate an object that implements and you would be required to implement to handle the callback, or response to the class query.

The Interfaces are defined with asynchronous callbacks, to allow for more scalability in networking situations, and to allow the implementers of the interface as much flexibility as possible.

Programmatic flow diagram



1. The User creates an instance of and makes a request
2. The Adapter Handler processes the request by interacting with the CIMOM implementation
3. The Adapter Handler calls the user-supplied implementation of asynchronously

By doing this, the underlying implementation required to interact with the CIMOM is abstracted from

the user of the interfaces. This makes replacement of all or part of the adapter handler transparent to the users of the interface.

Abstract base class definitions

These classes are intended to contain all implementation neutral entity content. For example, everything that is necessary to describe/interact with a CIMClass with the exception of anything required for a given environment, is contained in A particular implementation, like the IBM Director implementation described below, would then subclass this and add any additional information required for that implementation. For example, in the case of Director's implementation MOID (Managed Object ID) , which is the ID that uniquely identifies a particular system (client workstation) is added. This allows IBM Director to communicate with the system.

IBM Director implementation classes

These are an implementation based on the first two groups. They are what makes up the CIM Adapter support for Director.

RAS

The CIM support in IBM Director currently has no support through the internal The reason is a lack of code points to support new extensions. This problem should be rectified in a future release. The client code, the subagent running on Win32 platforms, does support a tracing facility.

The CIM Manager (`cimmgr.exe`) on the clients has a built-in RAS trace facility. By default the tracing is disabled. To enable it, create a file called `x:\Program Files\IBM\Director\bin\cimmgr.dbg` where `x` is the drive on which the IBM Director client is installed. The next time the CIM Manager is loaded by the client's Service Manager, RAS will be enabled and trace statements will be written to `x:\Program Files\IBM\Director\bin\cimmgr.ras`. The RAS trace statements are similar to those obtained via RASWATCH on the IBM Director server. Note, if the `cimmgr.exe` has already been loaded, you might need to stop and restart TWGIPC for the change to take effect. RAS tracing will be enabled as long as `x:\Program Files\IBM\Director\bin\cimmgr.dbg` exists. To disable RAS tracing, erase `x:\Program Files\IBM\Director\bin\cimmgr.dbg`. Again, TWGIPC might need to be stopped and restarted for the change to take effect.